

**Please amend the claims as follows:**

Please amend claim 1 as follows:

1. (Amended) A process for producing a non-aqueous sol-gel spin-on glass material comprising a hybrid glass/polymer material, by reacting an alkyl ~~or dialkyl~~ substituted trialkoxysilane or dialkyl substituted dialkoxysilane with a silane diol, wherein said alkyl group has from 1 to 8 carbon atoms, wherein the reaction of the alkyl substituted trialkoxysilane or dialkyl substituted dialkoxysilane silane with the silane diol is carried out in a non-aqueous medium in the presence of a catalyst, wherein the catalyst is selected from: a) a tin catalyst or b) a dibutyltin diluarate, titanium isopropoxide, acetic acid or trifluoroacetic acid catalyst.

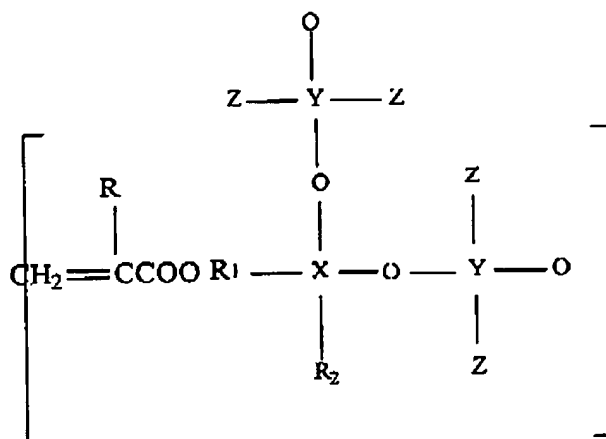
Please cancel claim 4.

Please cancel claim 6.

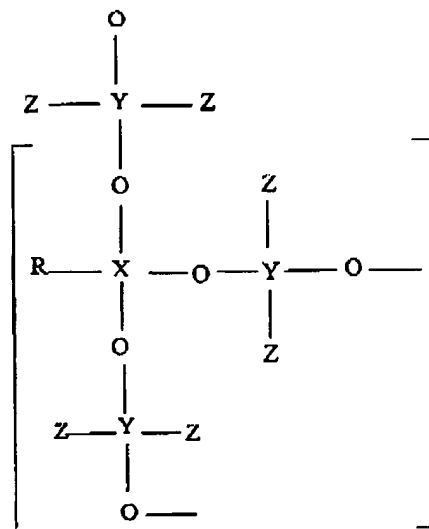
Please cancel claims 13-17.

Please amend claim 18 as follows:

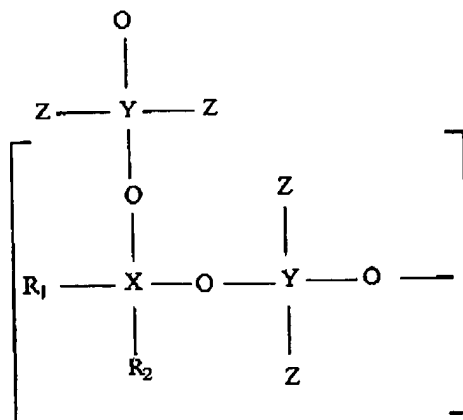
18. (Amended) A non-aqueous sol-gel spin-on glass material comprising a hybrid glass/polymer material containing a phosphor dopant, which comprises YAG base phosphor or moisture sensitive phosphor nano-particles or an organic material selected from organic dyes or metal complexes, said sol-gel spin-on-glass material selected from the group having the following formulas:

**Formula I**

Where R = Hydrogen,  $\text{C}_1$ - $\text{C}_8$  Alkyl, Halogenated  $\text{C}_1$ - $\text{C}_8$  Alkyl or Glycidylalkyl  
 $\text{R}_1$  = Ethyl, Propyl, another  $\text{C}_1$ - $\text{C}_8$  Alkyl, Halogenated  $\text{C}_1$ - $\text{C}_8$  Alkyl, Phenyl or Halogenated Phenyl  
 $\text{R}_2$  = Methyl, Ethyl or another  $\text{C}_1$ - $\text{C}_8$  Alkyl, Methyl, Ethyl  
X, Y = Si, Ge, Ti or Sn  
Z = Alkyl, Substituted Alkyl, Phenyl, Substituted Phenyl

**Formula II**

Where R = Alkyl ( $\text{C}_1$ - $\text{C}_8$ ), Phenyl, Substituted Phenyl, Methacryloylalkyl, Acryloylalkyl or Glycidylalkyl  
 $\text{R}_1$  = Phenyl or Substituted Phenyl, Ethyl, Propyl or another  $\text{C}_1$  to  $\text{C}_8$  Alkyl, or Trifluoroalkyl  
X, Y = Si, Ti, Ge or Sn  
Z = Alkyl, Substituted Alkyl, Phenyl, Substituted Phenyl

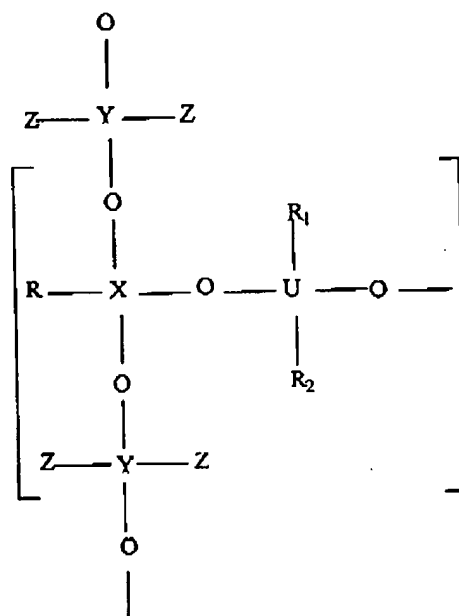
**Formula III**

Where R<sub>1</sub> = Phenyl or Substituted Phenyl, Ethyl, Propyl or another C<sub>1</sub> to C<sub>8</sub> Alkyl, or Trifluoroalkyl, Trifluoropropyl

R<sub>2</sub> = Methyl, Ethyl or another C<sub>1</sub> to C<sub>8</sub> Alkyl

X, Y = Si, Ge, Ti, or Sn

Z = Alkyl, Substituted Alkyl, Phenyl, Substituted Phenyl

**Formula IV**

Where R = Alkyl (C<sub>1</sub>-C<sub>8</sub>), Phenyl, Substituted Phenyl, Methacryloxyalkyl, Acryloxyalkyl or Glycidylalkyl

R<sub>1</sub> = Phenyl or Substituted Phenyl, Ethyl, Propyl or another C<sub>1</sub> to C<sub>8</sub> Alkyl, Phenyl or Trifluoroalkyl

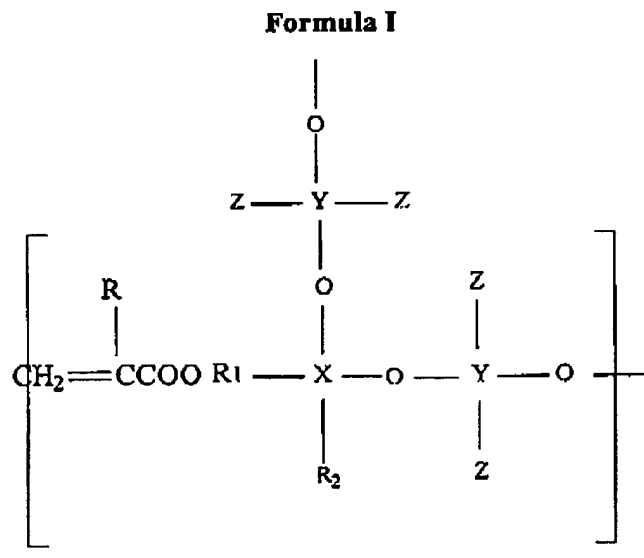
R<sub>2</sub> = Alkyl, Methyl, Ethyl or another C<sub>1</sub> to C<sub>8</sub> Alkyl or Phenyl

X, U, Y = Si, Ge, Ti, or Sn

Z = Alkyl, Substituted Alkyl, Phenyl, Substituted Phenyl

Please amend claim 19 as follows:

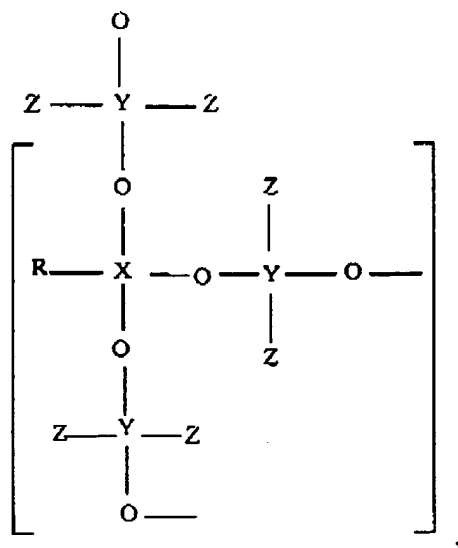
19. (Amended) The non-aqueous sol-gel spin-on glass material of claim 18, having the following formula:



Where R = Hydrogen, C<sub>1</sub>-C<sub>8</sub> Alkyl, Halogenated C<sub>1</sub>-C<sub>8</sub> Alkyl or Glucydloxyalkyl  
R<sub>1</sub> = Ethyl, Propyl, another C<sub>1</sub>-C<sub>8</sub> Alkyl, Halogenated C<sub>1</sub>-C<sub>8</sub> Alkyl, Phenyl or Halogenated Phenyl  
R<sub>2</sub> = Methyl, Ethyl or another C<sub>1</sub>-C<sub>8</sub> Alkyl  
X, Y = Si, Ge, Ti or Sn  
Z = Alkyl, Substituted Alkyl, Phenyl, Substituted Phenyl

Please amend claim 20 as follows:

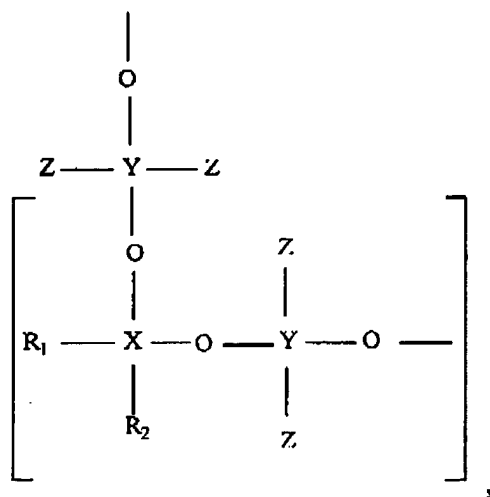
20. (Amended) The non-aqueous sol-gel spin-on glass material of claim 18, having the following formula:

**Formula II**

Where R = Alkyl (C<sub>1</sub>-C<sub>8</sub>), Phenyl, Substituted Phenyl  
 X, Y = Si, Ti, Ge or Sn  
 Z = Alkyl, Substituted Alkyl, Phenyl, Substituted Phenyl

Please amend claim 21 as follows:

21. (Amended) The non-aqueous sol-gel spin-on glass material of claim 18, having the following formula:

**Formula III**

Where R<sub>1</sub> = Phenyl, Ethyl, Propyl, Trifluoropropyl  
 R<sub>2</sub> = Methyl, Ethyl

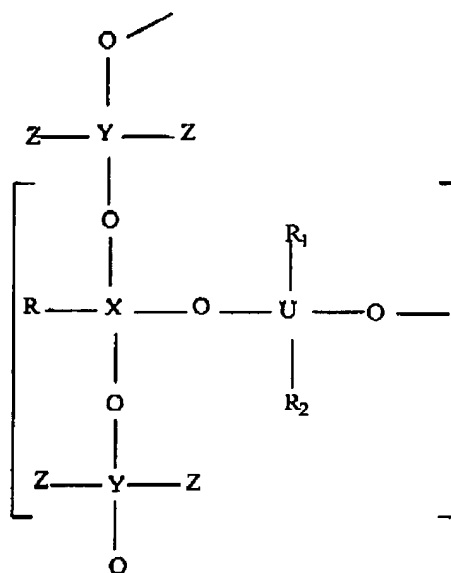
~~X, Y = Si, Ge, Ti or Sn~~

~~Z = Alkyl, Substituted Alkyl, Phenyl, Substituted Phenyl~~

Please amend claim 22 as follows:

22. (Amended) The non-aqueous sol-gel spin-on glass material of claim 18, having the following formula:

**Formula IV**



~~Where R = Alkyl (C<sub>1</sub>-C<sub>8</sub>), Phenyl, Substituted Phenyl~~

~~R<sub>1</sub> = Alkyl, Phenyl~~

~~R<sub>2</sub> = Alkyl, Phenyl~~

~~X, U, Y = Si, Ge, Ti or Sn~~

~~Z = Alkyl, Substituted Alkyl, Phenyl, Substituted Phenyl~~

Please cancel claims 23-25.

Please amend claim 26 as follows:

26. (Amended) The non-aqueous sol-gel spin-on glass material of claim ~~17~~ 18, further comprising a UV light blocking material and/or an oxygen scavenger.

Please amend claim 27 to as follows:

27. (Amended) The non-aqueous sol-gel spin-on glass material of claim ~~17~~ 18, further comprising a light-scattering material.

Please add new claims 34, 35 and 36 as follows:

34. The non-aqueous sol-gel spin-on glass material of claim 18, wherein the phosphor dopant comprises YAG base phosphor or moisture sensitive phosphor nano-particles.
35. A process for producing the non-aqueous sol-gel spin-on glass material of claim 18, the process comprising reacting an alkyl substituted trialkoxysilane or dialkyl substituted dialkoxysilane with a silane diol, wherein said alkyl group has from 1 to 8 carbon atoms, wherein the reaction of the alkyl substituted trialkoxysilane or dialkyl substituted dialkoxysilane silane with the silane diol is carried out in the presence of a catalyst, the process further comprising adding to said sol-gel spin-on glass material a phosphor dopant, which comprises YAG base phosphor or moisture sensitive phosphor nano-particles or an organic material selected from organic dyes or metal complexes.
36. The process of claim 35, wherein the phosphor dopant comprises YAG base phosphor or moisture sensitive phosphor nano-particles.